\$33,100

RECLAMATION SURE ESTIMATE 1 Diamond K Gypsum, Inc. 04/04/00 last revision 2 DKG Quarry filename o:\data\bonding\m15-41.wb3 3 M/015/041 (UTU-69860) **Emery County** 4 Prepared by Utah State Division of Oil, Gas & Mining 5 -This estimate uses a D9 size dozer for most earthwork. 6 -The DKG gypsum quarry has a permit area of 30 acres; bonded for 12.6 disturbed acres. 7 -This estimate is based on adherence to the mining & reclamation schedule 1999 - 2008. 8 -Deviation from the proposed reclamation schedule may result in increased bond amounts. 9 -Estimated initial disturbance as of 10/26/99: B (3.32) + C (4.09) +access road (0.60) = 8.01 acres. 10 -Area A: approx. 8.5 acres disturbed, 4.5 acres reclaimed 1995, 4 acres reclaimed 1997; AREA A IS NOW RELEASE 11 -Area B: approx. 3.32 acres disturbed, 3.18 acres reclaimed 1998, 0.12 acre access road remains. 12 -Area C: approx. 4.1 acres disturbed, current mining area includes soil & overburden stockpiles & access road. 13 -Assumed final disturbances of: 5 acres of previously mined, unreclaimed area & 5 acres of last active quarry, 14 plus main access road outside of quarry & 2 culvert crossings. 15 -Previously mined inactive area assumed to be a duplicate of active area disturbances. 16 -Active mine area includes: overburden & soil stockpiles (2 acres) & quarry floor including road (3 acres). 17 -Main access road disturbance at end of mine life estimated as 2.6 acres. 18 -Access road assumed to be 25 ft wide, 4,500 ft long (based on max length of mining blocks block). 19 -Access road segment within active quarry area covered with overburden; no ripping required. 20 -Overburden volume is based on 2ft depth over 10 acres; topsoil volume is based on 1 ft depth over 10 acres. 21 30.0 acres -Estimated maximum disturbance over entire mine life = 22 -Maximum disturbance allowed (bonded) at any time = 12.6 acres 23 \$/unit Activity Quantity Units Note 24 1,000 250 (1) 4.0 acre Ripping stockpile & compacted areas (2 x 2 acre) 25 26 1,348 (2) 337 Regrading portions of quarry (2 x 2 acre) 4.0 acre 27 28 250 325 (1) 1.3 acre Ripping 1/2 main access road - dozer 29 337 876 (2) Regrading all main access road - dozer 2.6 acre 30 31 500 LF 0.11 55 (3)Surface drainage restoration - trackhoe 32 1.000 1,000 (4) Culvert removal & drainage restoration - trackhoe sum 33 34 10,648 32.267 CY 0.33 (5) Overburden replacement - dozer- 2ft, 10 acre 35 (5) Topsoil replacement - dozer - 1 ft, 10 acre 0.33 5,324 16.133 CY 36 37 (01)150 1,890 12.6 acre Drill seeding 38 39 (02)50 63 General site cleanup & trash removal (10% site) 1.3 acre 40 41 (03)800 1,600 **Equipment mobilization** 2 equip 42 43 372 1,488 (5) **Reclamation Supervision** 4 days 44 25,617 Subtotal 45 2,562 10% Contingency 46 Subtotal \$28,179 47 4,919 48 Escalate for 5 years at 3.27% per yr \$33,098 Total

Rounded surety amount in yr 2005-\$

\$2,627

49

50

51

Average cost per disturbed acre =